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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/074,208	074,208 02/12/2002		Charles E. Taylor	SHPR-01041USO SRM	4381
23910	7590	12/01/2004		EXAMINER	
FLIESLER		R, LLP ERO CENTER	TRAN, THAO T		
SUITE 400	AKCADI	ERO CENTER	ART UNIT	PAPER NUMBER	
SAN FRAN	CISCO, (CA 94111	1711		
				DATE MAILED: 12/01/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)						
	Office Action Summary	10/074,208	TAYLOR, CHARL	ES E.					
	Office Action Summary	Examiner	Art Unit						
	The ASSUMA DATE of the communication	Thao T. Tran	1711						
Period for	The MAILING DATE of this communication a r Reply	appears on the cover sheet v	vith the correspondence ad	ldress					
- Extens after S - If the p - If NO p - Failure Any re	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION sions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a r period for reply is specified above, the maximum statutory perion to reply within the set or extended period for reply will, by state eply received by the Office later than three months after the maind patent term adjustment. See 37 CFR 1.704(b).	N. 8.1.136(a). In no event, however, may a reply within the statutory minimum of thi iod will apply and will expire SIX (6) MO	a reply be timely filed nirty (30) days will be considered timely DNTHS from the mailing date of this co	y. ommunication.					
Status									
1)⊠ [Responsive to communication(s) filed on 27	⁷ October 2004							
		his action is non-final.							
	Since this application is in condition for allow		tters prosecution as to the	marite ie					
(closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
	on of Claims								
	Claim(s) <u>1-52</u> is/are pending in the applicatio	on							
	ta) Of the above claim(s) is/are withdr								
5) (Claim(s) is/are allowed.	awii iioiii oongacration.							
	Claim(s) <u>1-52</u> is/are rejected.								
	Claim(s) is/are objected to.								
	Claim(s) are subject to restriction and	l/or election requirement.							
Applicatio									
	he specification is objected to by the Examir								
	The drawing(s) filed on is/are: a) ☐ ac		e a pos						
F	Applicant may not request that any objection to the	cepted of D) objected to	by the Examiner.						
F	Replacement drawing sheet(s) including the corre	e drawing(s) be new in abeyor	100. See 37 CFR 1.85(a).						
11)[T	The oath or declaration is objected to by the E	Examiner Note the attache	(S) IS Objected to. See St Ort	R 1.121(d).					
		-Adminor, Hoto are assessed.	3 Office Action of John 1 13	D-152.					
_	nder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
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Attachment(s)		_							
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview S	Summary (PTO-413)						
3) Informat	ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 No(s)/Mail Date	5) Notice of In 6) Other:	s)/Mail Date nformal Patent Application (PTO-1	152)					
S. Patent and Trade	amod. Office								

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/27/04 has been entered.
- 2. Claims 1-52 are currently pending in this application.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee (US Pat. 4,789,801).

Lee teaches an ion generator and an air conditioner (loud speaker), comprising a first array of electrodes; a second array of electrodes downstream from the first array; and a voltage generator coupled to the electrodes to create an airflow from the first to the second electrodes; each electrode is of one-piece construction; the first electrodes being ion emitters and pin-

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shaped, whereas the second electrodes ion collectors (see Figs. 2-3; col. 5, ln. 37-65; col. 6, ln. 26-42).

The second electrodes in Lee's invention are solid in structure, having a leading nose and a two side walls (see Fig. 3), not with the ends bent back to meet each other to make hollow electrodes. However, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, that specific configurations of the electrodes would have been an obvious matter of design choice. Since the second electrodes in Lee's invention are also collector electrodes, they would work equally well because the collector electrodes collect ion particles on the surface. Moreover, specific configurations of the electrodes would have been determined by routine experimentation in order to achieve maximal benefits attendant therewith.

In regards to claims 21-23, 26-37, 48-50, it has been settled within the skill in the art that the manner of operation, intended use, or how the product is made, would have insignificant patentable weight when an apparatus claim is being considered. See MPEP 2114.

5. Claims 1-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakakibara et al. (US Pat. 4,643,745).

Sakakibara teaches an air cleaner, which includes an ion generator, comprising a first array of electrodes; a second array of electrodes downstream of the first array; a voltage generator coupled to the electrodes to create an airflow from the first to the second electrodes; each electrode is of one-piece construction; the first electrodes being ion emitters and pin-shaped, whereas the second electrodes ion collectors (see Figs. 1-4, 10; col. 2, ln. 57-67; col. 3, ln. 46-67).

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Sakakibara's second electrodes are solid in structure, having a leading nose and a two side walls (see Figs. 2, 6, 9), not with the ends bent back to meet each other to form hollow electrodes. However, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, that specific configurations of the electrodes would have been an obvious matter of design choice. Since the second electrodes in Lee's invention are also collector electrodes, they would work equally well because the collector electrodes collect ion particles on the surface. Moreover, specific configurations of the electrodes would have been determined by routine experimentation in order to achieve maximal benefits attendant therewith.

In regards to claims 21-23, 26-37, 48-50, it has been settled within the skill in the art that the manner of operation, intended use, or how the product is made, would have insignificant patentable weight when an apparatus claim is being considered. See MPEP 2114.

Response to Arguments

6. Applicant's arguments filed on January 08, 2004 have been fully considered but they are not persuasive.

Throughout the Remarks, applicants provide the advantages of the presently claimed configurations of the electrodes over the prior art. However, as pointed out in the previous Office action and paragraphs 4-5 above, a specific configuration of an electrode would have been a matter of design choice, determined by routine experimentation in order to bring forth maximal benefits attendant therewith. Moreover, whether the electrodes are solid or hollow, since they have the same surface area, they would have worked equally well in attracting charged particles in the air stream.

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As pointed out by Applicants, an electrode that is "formed to have a leading nose and two side walls with ends to the side walls bent back to substantially meet each other will be less expensive to produce than a solid electrode having the same dimension". It would not be obvious to one of ordinary skill in the art to envision that such electrode would be less expensive than a solid one since the cost of an electrode would depend on different parameters, such as material, size, and workmanship.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao T. Tran whose telephone number is 571-272-1080. The examiner can normally be reached on Monday-Friday, from 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

tt November 29, 2004

> THAOT. TRAN PATENT EXAMINER